

432 MHz AND ABOVE EME NEWS

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EME NETS

14.345, 10 AM ET SATURDAYS, AFTER VARO NET SUNDAYS:

- NET CONTL: JOE, K1RQG (207-469-3492), E-MAIL: **Joe, K1RQG**
- EME STANDINGS: JIM STARKEY, W0KJY, 3845 CAPITOL DRIVE,
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CONDITIONS

The pattern seen this summer continued during the Aug SW. Activity was good on 1296, but weak on 432 despite the larger number of stations equipped for EME on 70 cm. The SW corresponded to the ARRL's UHF Contest, but there were only a few stations on contest collecting points. (Moonbounce counts in the ARRL Contests. The next ARRL VHF Contest is on 9/11 Sept – the weekend after the Sept SW.) Aug conditions on both 70 and 23 cm were satisfactory, but not out of the ordinary. The lunar eclipse on 11 Aug in Eur generated a lot of interest as can be seen from the following reports.

DUBUS/REF EME CONTEST RESULTS

TNX to Rainer, DJ9BV we have the Eur EME Contest tally. K5JL took 1st place on both 432 and 1296. ZS6AXT was number 1 on 13 cm. CT1DMK and F6KSX were 1st on 6 and 3 cm respectively. The top overall multi-band spot was taken by OE5EYM. ZS6AXT took all the prizes for Southern Hemisphere operation.

432 MHz

1	K5JL	251600	68(+ 0)	37	QRO	SIN,
2	UR5LX	198000	55(+ 0)	36	QRO	SIN,
3	DL9NDD	180090	62(+ 1)	29	QRP	SIN
4	OE5EYM	171600	52(+ 0)	33	QRO	SIN
5	K4QI	132300	49(+ 0)	27	QRO	SIN
6	JA5OVU	108000	45(+ 0)	24	QRO	SIN
7	DL4MEA	65100	31(+ 0)	21	QRO	SIN
8	G4ERG	60800	32(+ 0)	19	QRP	SIN
9	ON4KNG	33600	21(+ 0)	16	QRP	SIN
10	F1ANH	33000	22(+ 0)	15	QRO	SIN
11	F5AQC	28000	20(+ 0)	14	QRO	SIN
12	OZ6OL	23800	17(+ 0)	14	QRP	SIN
13	OE3JPC	23400	18(+ 0)	13	QRP	SIN
14	EA3DXU	22800	19(+ 0)	12	QRP	SIN
15	JH4JLV	20000	20(+ 0)	10	QRO	SIN
16	KB4CNI	18240	15(+ 2)	12	QRO	SIN

17	S57RA	15000	15(+ 0)	10	QRP	SIN
18	ON5OF	14300	13(+ 0)	11	QRP	SIN
19	VE6TA	11790	13(+ 1)	9	QRP	SIN
20	IK5QLO	10800	12(+ 0)	9	QRP	SIN
21	JA4BLC	8400	12(+ 0)	7	QRO	SIN
22	S51ZO	8000	10(+ 0)	8	QRP	SIN
23	OK1DFC	7700	11(+ 0)	7	QRO	SIN
24	W3XS	5400	9(+ 0)	6	QRP	SIN
25	S52CW	4200	7(+ 0)	6	QRP	SIN
26	YO2IS	2500	5(+ 0)	5	QRP	SIN
27	JA2TY	1000	5(+ 0)	2	QRP	SIN
28	UT3LL	900	3(+ 0)	3	QRP	SIN
29	JJ1NNJ	400	2(+ 0)	2	QRP	SIN

1296 MHz

1	K5JL	133300	43(+ 0)	31	QRO	SIN
2	F6CGJ	129600	48(+ 0)	27	QRO	SIN
3	K2DH	126000	42(+ 0)	30	QRO	SIN
4	OZ4MM	110200	38(+ 0)	29	QRP	SIN
5	W2UHI	99900	37(+ 0)	27	QRP	SIN
5	K4QI	99900	37(+ 0)	27	QRO	SIN
6	ZS6AXT	98400	41(+ 0)	24	QRP	SIN
7	OK1DFC	97500	39(+ 0)	25	QRO	SIN
8	N6BQ	94770	35(+ 1)	27	QRO	SIN
9	F2TU	88800	37(+ 0)	24	QRO	SIN
10	SM3AKW	87400	38(+ 0)	23	QRP	SIN
11	F5PAU	86100	41(+ 0)	21	QRO	SIN
12	OE5EYM	81400	37(+ 0)	22	QRO	SIN
13	ON5RR	68420	31(+ 1)	22	QRP	MUL
14	OZ6OL	55100	29(+ 0)	19	QRP	SIN
15	CT1DMK	48200	24(+ 1)	20	QRO	SIN
16	IK3GHY	46500	31(+ 0)	15	QRP	SIN
17	DH9FAG	40800	24(+ 0)	17	QRP	SIN
18	JH5LUZ	40000	25(+ 0)	16	QRO	SIN
19	F1ANH	28600	22(+ 0)	13	QRO	SIN
20	VE6TA	18000	15(+ 0)	12	QRP	SIN
21	W3XS	15400	14(+ 0)	11	QRP	SIN
22	JF3HUC	12800	16(+ 0)	8	QRP	SIN
23	HA5SHF	8960	11(+ 2)	8	QRP	MUL
24	VK5MC	3000	6(+ 0)	5	QRP	SIN

2320 MHz

1	ZS6AXT	16800	14(+ 0)	12	QRP	SIN
2	OZ4MM	11000	11(+ 0)	10	QRP	SIN
3	F1ANH	4900	7(+ 0)	7	QRP	SIN
4	JA4BLC	3000	6(+ 0)	5	QRP	SIN
5	IK2RTI	1200	4(+ 0)	3	QRP	SIN

5760 MHz

1 CT1DMK 400 2(+ 0) 2 QRP SIN

10 GHz

1 F6KSX 4900 7(+ 0) 7 QRP MUL
 2 S57UUU 400 2(+ 0) 2 QRP MUL
 2 CT1DMK 400 2(+ 0) 2 QRP SIN

Multiband

1	OE5EYM	1215500	143(+ 0)	85	QRO	SIN
2	K5JL	754800	111(+ 0)	68	QRO	SIN
3	K4QI	498800	86(+ 0)	56	QRO	SIN
4	ZS6AXT	198000	55(+ 0)	36	QRP	SIN
5	CT1DMK	191490	49(+ 1)	39	QRO	SIN
6	OZ4MM	191100	49(+ 1)	39	QRP	SIN
7	F1ANH	178500	51(+ 0)	35	QRO	SIN
8	OK1DFC	160000	50(+ 0)	32	QRO	SIN
9	OZ6OL	151800	46(+ 0)	33	QRP	SIN
10	EA3DXU	145700	47(+ 0)	31	QRO	SIN
11	S51ZO	65100	31(+ 1)	21	QRP	SIN
12	VE6TA	58800	28(+ 1)	21	QRP	SIN
13	W3XS	39100	23(+ 1)	17	QRP	SIN
14	YO2IS	24000	16(+ 1)	15	QRP	SIN
15	JA4BLC	20400	17(+ 1)	12	QRP	SIN

Leading Southern Hemisphere stations -

144 nobody
 432 nobody
 1296 ZS6AXT
 2320 ZS6AXT - also band winner, and multiband ZS6AXT.

DJ5MN

Berhard is looking for more stations to QSO on 23 cm. His dream is to complete WAC on 1296 with only 2 yagis! He is up to initial #27, using 2 x 70 el yagis, TH327 PA and FHX35LG .32 dB NF LNA.

DJ9YW

Heinrich writes -- On 11 Aug we had a nearly total eclipse of the Sun. My QTH was only 400 km to the north of the umbra. At 1035 the maximum was reached with 91 % of cover. During the eclipse the temperature dropped to 30 deg C. At 1100 I turned my 23 cm EME system on and heard CQ from Erich, OE9ERC. Even though the Sun was still covered about 43 %, we had a QSO with (O/O)! The QSO started at 1105 (Sun noise 13.8 dB) and ended at 1111 (Sun noise 14.1 dB). The distance to the Moon was 373,382 km. AZ was 172 degs and EL 52 degs. At 1200 the Sun was fully visible again and delivered 16.3 dB at an SFI of 127. Erich had a Sun noise of 17.5 dB during the QSO and with a covering of 56 %.

The VK3UM/F1EHN program was used for tracking with a 0.10 deg accuracy. I need QSL cards from W0KJY, WA4NJP and JF3HUC.

DL4MEA

Guenter sends a few words about his EME work during the last few months -- I spent much effort to become able to track the Sun with my 80C535 based tracking system. I wanted to have the system working for the total eclipse, which took place at my QTH on 11 Aug. As always happens, after 2 weeks of perfect operation my relay based AZ power stage broke. It had to be completely rebuilt using a MOSFET bridge. I also decided to change the system to have a north end limit, so I can track the Sun and Moon without interruption. Somehow with those changes, my accuracy increased greatly. I can now find the Moon and Sun anytime. Tracking of the total eclipse gave me 6 dB attenuation of the noise during the full shadow, which verifies the data measured by others very well. I worked SM2CEW on 13 Aug under very strange conditions. We were doing a 70 cm meteor scatter test and just wanted to verify our frequencies, so we both pointed to the Moon, which was close to zenith at the time, and worked (559/559). On MS over that large distance, 2,035 km, I was at least able to hear one really strong and loud ping, but we did not complete the QSO, which we will surely do the next time.

DL80BU

Juergen is very interested in 70 cm skeds for the Sept SW. Stations should have at least 4 yagis and > 500 W. Juergen's station is in JO42xi and is 4 x 33 el (10 wl) yagis and a YL1050 PA. He is awaiting QSL cards from W7ALW, KA0RYT/0 and RA3LE.

EA6ADW

Peter will be staying in DL until 2 Sept. He will then be back in Majorca until Nov, and QRV on 1296. He is interested in skeds. 3 weeks ago EA6ADW/P, JM19nw, worked on 10,368 MHz tropo 9H1ES/P in JM76 and JM75 (1,090 km) (55/59) on SSB. On 1296 EME Peter QSO'd W1ZX on random for initial #146.

G3SEK

Ian's 432 EME report for Aug -- My activity has been very sporadic this year, with a lot of interruptions due to other commitments. I wasn't able to be on the air on Saturday morning, 7 Aug, and only worked W7CNK near moonset. On Sunday, 8 Aug, I added JA6AHB (449/559) for an initial (#), JA5OVU (559/559), VK4AFL (O/O) #, OZ6OL (O/O) #, G3HUL (449/449), K0RZ (449/449) in the ARRL VHF Contest, DF3RU (559/449) and W7CNK (449/549). Also heard were VK2BEK (at about 0300) and HG4I (at about 0900). Both stations were calling 1x1 CQs with good signals, but apparently not listening seriously for calls. My GS35b amp is working well, giving a solid 1 kW at the antenna. I have spent some time developing a "universal" control board for triode amps that should be

ready for rollout very soon. I should be QRV for the Sept SW, and will be happy to take skeds. I am particularly looking for AL7OB (short path only), RW1AW and W7SZ and also VK2BEK and HG4I, if they are genuine initials. I probably won't be QRV for the Oct SW, but both contest weekends are marked KEEP CLEAR in my calendar!

GW3XYW

Stu was very pleased and surprised to join the ranks of successful 10 GHz Moonbouncers on 8 Aug by QSOing **PA3CSG (M/M)** during preliminary testing. It was even raining at the time. Signals had an auroral quality with almost a total absence of tone. Stu was also active on 1296 and QSO'd on 7 Aug **OK1DFC (449/549)**, **OZ6OL (449/559)**, **K2UYH (559/559)**, **K5JL (569/569)**, **S59DCD (449/449)**, **ZS6AXT (549/579)**, the Moon was on Ivo's horizon, **W6HD (559/559)** and **OE9ERC (569/559)**.

I0UG

Giuseppe is now QRV on 1296 EME. He worked during the Aug SW **K5JL** and possibly others. Giuseppe's e-mail address is:
[I0UG](mailto:I0UG@i0ug.com)

K1FO

Steve forgot it was the SW and missed the Eur window on Saturday. He was on for the Asian window, but only heard JA6AHB. Steve planned to be QRV on Sunday, but was forced to be QRT due to thunderstorms. On 14 Aug, he worked **W7SZ** and **AL7OB** for initials #551 and #552.

K5JL

Jay was on 23 cm this SW, and had some problems with his TX, but now has everything working properly -- I got the water back in the proper place and the gooo up to normal again. I worked about 20 station on 1296 during this SW. Condx were very good. The last few months have been spent evaluating the W7CNK 1296 preamp. I have gone from prototype to production model. The pre-amp is no-tune and build in a silver enclosure. The device is an ATF 36077. Four were take to CSVHF, all measured .22 dB NF, and won the 1296 pre-amp competition hands down. It is unconditionally stable - no matter what you do to the little fellow - it will not take off. All units that have been assembled have shown a NF of .22 dB or better. On the air operation has been excellent. I can hear my own echoes running less that 1 W. (Lucky is now in production and offering these LNAs for only \$US135 - brings your receive system to today's state of the art.) On 9 Aug, I worked **WA1JOF**. Don had 4 loop yagis and only 100 W.

KB4CNI

Cowles writes -- I have some good and bad news. The good news is that I have found a house to buy and towers are allowed. The bad news is that I have to take

down my 4 towers and will be off the air for a while. I am planning to start to dismantle the 432 EME array next week. I have a 120' tower with my HF antennas on it to take down, which I am not looking forward to at all! The house I am buying is up on a high hill. I can see over 20 miles in most directions. I think it will be a good radio site. I really enjoyed EME and the friends I have made on the Moon. I really hate to miss this year's EME contest. I hope to be back on the moon by next summer.

OE5JFL

Hannes sends a special report -- My EME-site was just within the area of the total Sun eclipse on 11 Aug. So I used my autotrack system to measure 70 cm Sun noise during this event. The reduction was only 6 dB when the (visual) Sun was totally covered. So I guess about 25% of the sun noise we usually measure is coming from the corona. OE5EYM made the same type of measurement on 23 cm. I have not seen his plot yet, but he reported a deeper dip on this frequency. During the eclipse the weather was not very good here, but one hour before the maximum it cleared up a bit. So I went back to my home QTH with the car, picked up my family, and was chasing a clear spot in the sky. With good luck we were able to see the total coverage of the Sun, the corona and Venus beside the Moon/Sun for 2 minutes. It was completely dark, and far in the south we could see some mountains outside the total zone covered with soft red/yellow light. It made a big impression that I will never forget!

OE9PMJ-OE9YTV

Peter and Reinhilde report on their 6 cm e- mail arranged skeds on 14 Aug -- We started operation around 1500 but had TX troubles, thus we missed some skeds. Later we discovered a dc line was shorted. We QSO'd at 1609 partial OH2AXH (559/-) NC due to the TX troubles, 1659 SM4DHN (559/549), 1825 OE9ERC (549/549) and 1838 W7CNK (549/549) for an initial (#). Heard were VE1ALQ (549) calling HB9SV. Enrico, HB9SV reported bad results. He heard no signals and measured only 2 dB CS/G noise and 8 dB of Sun noise. He wants to improve his 6 cm EME system (8 m dish and 20 W SSPA) and canceled his 16 Aug skeds. We plan to try again on 4 Sept from 0700 to 1300.

OH2AXH Michael (OH2AUE) reports that his group had 6 cm QSOs on 18 Aug with **W7CNK** and **VE1ALQ**. They used a 35 W SSPA feeding a 6.4 m dish. Their own echoes were good with lunar noise of about 2 dB. They are interested in more skeds and can be reached by e- mail at:

Michael, OH2AXH

or better yet by telephone to + 358 40 5038904 (OH6DD's mobile phone).

OK1DFC

Zdenlk sends his Aug SW report -- I must apologize for my recent SW absences. I was very busy and on the 1st 2 weeks in July on vacation. Back in June, I met with my friends from OK1KIR (OK1DAI, OK1DAK and OK1DCI) and Franta OK1CA. We established a committee to bring the 2002 EME Conference to Prague. We discussed organization, accommodations and program plans. We know it is early, but a really FB conference needs preparation well in advance. We will have a small presentation for the UHF/SHF meeting on 11/12 Sept in Weinhem - see Weinhem:

[The Weinhiem VHS/UHF Conference \(Germany, EU\)](#)

Many EMEers, as G3SEK, will be at Weinhem. This will be a good chance for us to practice our presentation for Rio2000. Aug conditions were quite good and the WX was also nice. Activity on 1296 the 1st night was low. I had a sked with W1ZX and we QSO'd without a problem. I also QSO'd GW3XYW (539/449), ZS6AXT (539/539), K2UYH (559/559), DJ9YW (539/559), W1ZX (559/559) for initial #81 and WAS 15, W6HD (559/559), S59DCD (539/339), OE9ERC (579/559), W2UHI (539/539), OK1KIR (449/449), DJ5MN (339/O) initial #82, HB9BBD (579/569), OZ6OL (O/549), I0UGB (O/539) for initial #83, OH2AXH (559/559), K5JL (559/549), K4QI (559/559) and W2UHI (549/539). On the next SW I will be busy, because of the VHF IARU Contest, and again on 2-3 Oct the UHF IARU Contest. But I will see you in the ARRL EME Contest for both parts.

ON5OF

Dirk is trying to organize an EME dxpedition to 3A. He has received very little response thus far. He still needs volunteer help. He hopes that the local club can help. 3A2MS are ON5OF are presently the only ones interested. He is looking for systems for 23 and 70 cm and needs help with antennas on both bands. There is also a window limit in 3A. Dirk picked up a cavity with a GS35 for 70 cm and hopes to have it working by the ARRL EME Contest.

ON6JY

Luc writes after a long absence -- I have not been active on EME due to a business overload as well my move to a new QTH. I am now rebuilding my station and hope to be back on the air soon. I plan to be active on 70, 23 and 13 cm with a dish between 6 to 9 m in dia. I have not finalized the size, but the concrete is already freshly installed with a new tower ready for mounting. Depending on time, I will perhaps install a group of yagis for 70 cm to be active while the dish is completed. The rest of the station will be the same as I used before. Basically, I will have around 1 kW on both 70 and 23 cm (YL1050) and about 100 W on 13 cm (2C39). I am making plans to attend the conference in Rio and hope to meet everyone there.

PY5ZBU

Don reports on the Rio2000 EME Conference -- We had a couple of weekend shutdowns of our e-mail service provider. Otherwise everything is running FB and on schedule with the EME Conference preparations. I am not receiving many photo's of antennas, shacks, etc. All those shown in the web page are from my own personal collection of QSLs. Stations should send pictures to me through the post if they don't have scanning facilities, or via e-mail to my home. The address for photo's is (Inepar S/A Indzstria e Construgues Av. Juscelino K. de Oliveira, 11400 - CIC 81450-900 - Curitiba - Pr, Att. Mr. Donald Murden - PY5ZBU).

RW1AW

Alex notes that he has been QRV on 144 EME since Sept 98 and on 432 since April 99. On 70 cm he is running 12 x 15 el BV yagis, GS- 35B 1.5 kW PA, .28 dB NF NE-324 cavity LNA (TNX to DL9KR for PHEMT!) and FT-736R with DSP-599ZX. His latest contacts were on 30 July **VK4AFL** for initial #29, on 02 Aug **IK5QLO** #30, on 07 Aug **OK1KIR** (449/439) #31, **WE2Y** (449/459) #32 and **KB4CNI** (539/549) #33, and on 8 Aug **JA5NNS** (559/539) #34 and **JA5OVU** (569/569) #35. Alex's e-mail address is:

[Alex, RW1AW](#)

VE1ALQ

Darrell was unable to make his 5.76 GHz Aug SW skeds because of very heavy rain and wind. Later he did work **OK1KIR** and **OH2AXH**, both (559/549) on 6 cm. He is looking for new ones on 23, 70 and 6 cm. On 23 cm he worked **K2UYH** on **SSB** and is looking for **I0UGB** on sked.

W1ZX

Willie was on 23 cm in Aug and worked on the 7th at 1000 **OK1DFC** (339/559) and 1056 **K2UYH** (55/559) - one way **SSB**, and on the 8th at 1330 partial **OK1KIR** (559/-) in sked. Willie had a problem with his FT-736R, which was off frequency. He was transmitting, but not near the correct freq. Willie will be away on vacation during the Sept SW. He will be back on 23 cm for the Oct SW. Willie is still working on his tracking problems and says it's coming together with **VE1ALQ**'s help. He is looking for skeds on 23 and 70 cm. Skeds can be arranged via the 20 m net or by e-mail at:

[Willie, W1ZX](#)

W2UHI

has found a problem with his system when he was checking Moon noise. Frankk discovered that his TX 7/8" pigtail (around the mount) was damaged. He has shortened the pigtail from 25' to 12'. The system is now much improved. During the SW Frank worked **S59DCD**, **W6HD**, **K2UYH**, **OE9ERC** and **OK1DFC**, but

could not get the call of IOUGB. He is measuring 18 dB of Sun noise and 4.5 dB of CS/G noise.

W5HUQ

John, has obtained a 16' aluminum dish and is looking for ideas on mounting it. He plans to put it on 1296 at this point and possibly other bands in the future.

W7HAH

Sheds writes on his July 70 cm activity -- I had no skeds in the NL for July, but did work 2 new ones. I QSO'd on 9 July **RW1AW (559/569)** for initial #209 and on 16 July **JA5NNS (O/O) #210**. Others worked during July were **K5GW (579/579)** and **N9AB (569/559)**. I am always looking for skeds. Weather is good for antenna repair nowadays, but I have to rely on others to help, as I am pretty much unable to climb towers anymore at 77 years young.

WA1JOF

Don is now operational on 23 cm with 4 loop yagis and 100 W. He QSO'd **K5JL** on 9 Aug. Jay says he was weak, but Don is working on more power. He will run with any big stations wishing a sked next SW. He has heard OE9RC and others. With 250 W or more he should be easily workable. Don has no e-mail and an unlisted telephone, but skeds can be arranged via Klaus or Joe via the 20 m net. Don also asks if anyone know about the 2 tube 23 cm amp by SSB Electronics? (See the for sale section.)

WA9FWD

John worked in Aug on 432 **PY5ZBU** to complete WAC! He now needs (only?) UTAH to complete WAS on 70 cm. On 1296 he QSO'd **PY5ZBU, OE9ERC, G3LTF, W6HD** and **OK1KIR** no sign on their sked, but he found him later on random.

ZS6AXT

Ivo sends his greetings and reports -- On Saturday 7 Aug I worked on 23 cm **OK1DFC, VE1ALQ, S59DCD, K5JL, PA3CSG, K2UYH, W6HD** and **GW3XYW**. Heard was **DJ9YW**. On Sunday 8 Aug I added **OZ6OL, OH2AXH, HB9BBD, DK5MV** for initial #145, **DJ5MN, K4QI, K5JL, OE9ERC** and **VE1ALQ**. Heard were **S59DCD, OK1DFC** and **PA3CSG** - all with good signals. Signals were up and down, especially with my EL below 25 degs. On Wednesday 11 Aug, **Erich OE9ERC** phoned me and we tried a QSO on 23 cm during his total eclipse. We made it at 1038, (579/449) - normal reports are (589/569). Erich was (569 peaking 579), and (559) at the end of QSO. My power was a bit down. I heard some cooking noises from my HV PSU! At that moment the Moon was about 1.2 degree from the Sun (center to center). So I was getting virtually full Sun noise! I hope that all in Eur enjoyed the eclipse. On 6 cm I spent some time selecting SMA jumpers from the lot I bought last year in DL and found one that is very

good. I installed it and measuring ground noise. I am now getting 6.3 dB CS/G noise (with Sun overhead), which adds a bit. This is at least 0.3 dB better than before.

K2UYH

I was active on 23 cm on Saturday this month. This is a switch from my normal pattern. I wanted to spend some time on 1296 after only operating 432 for the past 2 SWs. Activity and conditions seemed good on 23 cm. I QSO'd on 7 Aug at 0914 **OK1DFC** (559/559), 0927 **OZ6OL** (549/559), 0938 (559/559), 0950 **DJ9YW** (569/569), 0959 **K5JL** (47/57) on SSB - Jay had a distortion problem which he later fixed, 1011 **S59DCD** (559/539), 1031 **ZS6AXT** (559/579), 1050 **VE1ALQ** (56/57) on SSB, 1056 **W1ZX** (559/55) on 1- way SSB for initial #169, 1114 **W6HD** (579/559), 1128 **OE9ERC** (57/57) on SSB and 1204 **W2UHI** (559/559) and (55/55) on SSB. The next day I switched to 70 cm, but had to attend an IEEE conference that limited my operating time to about an hour. I contacted on 8 Aug at 1048 **DF3RU** (569/559) and (55/54) on SSB and 1121 **K0RZ** (559- FN20559/559-DM79) for ARRL UHF Contest points. I also CWNR **G3HUL**. There did not seem to be too much activity at the time I was on the Moon. I believe I am caught up on all my QSLs. With most stations getting their NL by e-mail, I can not just include my QSLs with the NL. If I owe you a QSL please let me know.

NETNEWS

by **G4RGK**

CT1DMK could not be on for his 5.7 GHz Aug skeds on Saturday due to personal problems.

LU6DW, Marc reports that his 1296 power amp (60 W) is out of service, so we will not be QRV until we can get it to working again.

LU4DHD, Willy is listening on 23 cm with a 3.6 m dish.

W0PHD is considering getting on 432 and/or 1296 EME from his ND QTH. Wally can be reached at .

KD5FZX (EM12) needs AZ > 105 deg and EL >15 deg EL for 1296 EME operation. His Aug sked with **S59DCD** was out of his window.

ON4UV is working on 10 GHz EME, but has been slowed down by the illness of

his wife.

KD4LT is looking for AL7OB on 70 cm as he could not make his Aug sked due to storms.

K9BCT/4 reports that the SSB Amps run fine. He has 2 combined. They require about 10 W per unit for about 400 W+ out.

N2IQU is QRV on 70 and 23 cm and listening on 10 GHz.

W7QX was unable to get on 70 cm for the SW. He had a match problem, and thinks there may be water in his feedline. He is working on a 23 cm EME system. He has also changed his e-mail address to: [W7QX](#)

W7CNK had a good time at the CSVHF Conference. He reports the Sun noise on 70 cm is hot - 14.75 dB. During the SW he worked OH2AXH in a sked on 5.7 GHz but heard nothing else there. He also worked G3SEK on 432, but heard little other activity on 70 cm.

N6BQ had problems and was unable to be QRV on 23 cm from home for the SW. He could not find the Moon. His 5 m dish is working well on receive. Jeff heard many stations and 18.5 dB of Sun noise. Hoppy hopes to have the 5 m dish going on TX in a couple of weeks.

W5LUA is working on 24 GHz gear.

W4HHK has just got out of the hospital and is doing better.

DK3WG has not been active this summer and missed the Aug SW.

SM2CEW also was not able to be on fore the SW.

W7SZ is running 100 W and 4 x M2 yagis. He was also away from home on the SW.

W4RDI is not QRV as he lost his tracking system due to a lightning strike.

WE2Y worked on 70 cm OK1KIR (O/O), RW1AW (O/O) and DL9NDD during the SW.

DL9KR reports little activity on 432 during the SW.

PA3CSG was on 23 cm during the SW, but heard nil from W1ZX and did not work anyone else. He was also on 3 cm and QSO'd GW3XYW with a good sig.

GM0ONN is QRV with 4 x 21 el yagis and 800 W on 432.

WA4NJP will be somewhat inactive until Labor Day weekend due to QRL.

FOR SALE

KL7FB has **10 RCA 7213** pulls for sale. He does not know if they are good or not. They were pulled out as routine scheduled maintenance for some USAF PA's.

Chris paid \$US50 to take a chance on some of them being good, and is offering them for sale for what he paid plus shipping.

He also has for sale the following items plus more:

1) **UPX-4 1296 MHz PA**, which was machined and modified for 1296. Six water-cooled tubes are included. This unit was tested and worked well, but was a bit touchy on the tuning. This unit has never been set up with a power supply/meter or water-cooling, but was tested. It comes with a filament transformer, but no power supply. Make an offer.

2) **2 x 7289 air-cooled SSB Electronics 1296 MHz PA**. It was never used, has no power supply, but does have tubes in it. Make an offer.

3) **Hughes C-band 6 GHz 40 W TWTAs**. They are complete and run off of 48 Vdc. The rating is for commercial use, non-compressed linear RF for multiple RF carriers, and will do more for single carrier CW. He had someone tell him they got 60 W out of one. Chris wants \$US400 each. They work and are guaranteed to be as specified here.

4) **2 sets of 3 amps continuous 6 kV full wave bridge rectifiers. 4 diodes in each set. Best offer, includes heat sinks.** Contact Chris at:

KL7FB

KJ4SO, Woody is looking for some ideas on using a dual band feed for 5760 and 10368.

NA4N wants info on a hybrid junction made by Anzac Electronics, model H-9. Its a 180 deg power combiner that's supposed to cover 2 MHz to 2 GHz.

W7CNK has **state-of-the-art 1296 pre-amps for sale** for only \$US135 - see **K5JL**'s report.

K9BCT/4 has a **70 cm array for sale. 8 x 18 el yagis plus H frame** is available for **pick-up only**. Call Randy and negotiate.

DH1SBJ has for sale a klystron (linear) amplifier tuned to 10368 MHz. Pmaxout = 2.5 kW at Vcoll = 11 kV. He used it with Vcoll = 6 kV only (Icoll = 400 mA) and got 400 W out with 24 dB gain. **WR90 in-out**. It is very easy to operate with only

one heater and one collector-voltage (5-11 kV). Contact: Rolf, DH1SBJ, at e-mail: DH1SBJ

TECHNICAL

Have you wondered why AZ pointing feels so sharp near the horizon, while EL angle is the critical setting near zenith? W8MQW explains why in this month's technical contribution.

FINAL

This NL is being set out a few days late. I thought I had everything worked out, so that I could attend the EME Symposium and get the NL out on time. Unfortunately the best plans do not always work out as expected. When I returned I found that the Sept skeds had not yet arrived. K1RQG offered to help, but could not do anything for several days. I decided it would be best to delay any have some skeds, rather than send the NL out with none.

? I had a great time at the EME Symposium organized by Mark, N2IQU, and especially want to thank everyone for the lovely award I received for producing the NL these many years. It was a complete surprise. Thank You. Just seeing Mark's station and his PAs for 10 GHz made the trip worthwhile. Mark personally arranged for much of the food, which was outstanding. Breakfast, lunch, diner and snacks made the Symposium feel more like a cruise than a conference. The abundance of food and drink stimulated socializing for which plenty of time was allocated. The Symposium CD, edited by KB2AH and produced by K2DH contained volumes of information! Talks were provided by W4RDI on EME basics, AA4TJ on receivers, W3XS on finding the Moon and tracking, W8MQW on determining pathloss, K2UYH on polarization rotation, WA8ZWG on connectors and transmission lines, KB2AH on dish construction, K1FO on system measurements, and W6/PA0ZN on his WEB site.

? Interested in #A on 432 and/or 1296 EME, see ON5FF's report.

? Now is the time to start making plans Rio2000, see PY5ZPU's report.

? In response to my query regarding needed states, W8TN surveyed 10 432 EME stations to find out, which states they still need on 432 EME. Nine of those stations need less than 10 states to complete WAS. The 10th station needs 19 states. By far, the most needed state is KY (9 stations need KY.) Two of the stations surveyed only need a KY QSO to complete WAS. The most wanted states

in order of demand were: KY (9), ND (5), NE (5), WY (5), HI (4), NM (4), RI (4), VT (4), ID (3), NV (3), SD (3), UT (3), NH (2), OR (2), AR (1), IN (1), MA (1), ME (1), MO (1), MT (1), PA (1), SC (1), VT (1) and WI (1). Clark noted that this survey was made after KA0RYT's dxpedition to NE and yet 5 of the 10 stations surveyed still need NE, which is tied for 2nd place in demand!

? The results of the CSVHF Antenna Gain Contest can be found at:

[CSVHF Antenna gains](#)
and Preamp NF Contest at:
[PreAmp. Contest](#)

?Keep the reports and technical info coming. Remember the ARRL EME Contest is only a little over a month away (30/31 Oct and 27/28 Nov). CU you off the Moon during the Sept SW.

73, Al - K2UYH



EME Schedules

SEP 4

Time	432.040	432.045
0030z	G3SEK -VK2BEK	
0730z	OH2DG -S51ZO	
0800z	F5KDK -OH2DG	
0830z	PY5ZBU-EA3DXU	
0900z	WE2Y -EA3DXU	
0930z	KB4CNI-EA3DXU	
1030z	AL7OB -W7QX	G3SEK -RW1AW
1100z	AL7OB -WE2Y	G3SEK -HG4I
1130z	W7SZ -PA3CSG	W7BBM -OH2DG
1200z	AL7OB -G3SEK	W7SZ -K2UYH
1230z		W7SZ -G3SEK
1330z	W7SZ -K5WXN	

SEP 5

Time	432.040	432.045
0030z		AL7OB -DL9NDD
1200z	KL7HFQ-OH2DG	

SEP 5

Time	1296.050
0230z	DJ5MN -JA7BMB
0300z	DJ5MN -JF3HUC

0330z DJ5MN -JH5LUZ
0830z EA3UM -DJ5MN
0900z ON5RR -DJ5MN
0930z PY5ZBU-DJ5MN
1000z LU6DW -DJ5MN
1100z WA1JOF-W2UHI
1130z WA1JOF-WA6KBL
1200z WA1JOF-K2UYH
1230z
1300z KD5FZX-S59DCD

SEP 11

Time 1296.050
1200z HB9BBD-DL/LZ1DP
1230z OE9ERC-DL/LZ1DP
1330z ZS6AXT-DL/LZ1DP
1400z VE1ALQ-DL/LZ1DP

SEP 4

Time 2304.050 2304.075
0930z G3LQR -OK1KIR
1000z NU7Z -OH2AXH VE1ZJ -OK1KIR
1030z NU7Z -OK1KIR
1100z NU7Z -GW3XYW OH2DG -OK1KIR
1130z DF3RU -OK1KIR

[EME 2000, the upcoming EME conference in Rio, Brazil.](#)

[Most recent Schedules from Klaus, DL4EBY](#)

[Lunar Calendar for 1999 prepared by G3SEK](#)

[Netnotes by K1RQG](#)

[Leave Contest Info or Comments to Allen Here](#)

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[Return](#)

[Top Page](#)

[Rein, W6/PA0ZN](#)

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